

Maintenance Bulletin

		FILE NO
	AN/TPQ-36 Radar Systems	166
L		DATE: CATEGROY: O/DS MAINT
	ขมะตา: IAPS Alignment Verification	SYSTEMS AFFECTED: AN/TPQ-36 (V)7, 8
1.	Reference: N/A	
2.		equipped with Modular Azimuth perform alignment verification.
3.	Tools and Support Equipment. Firefinder ORG Toolkit RTV Sealant PADS or other survey device that is capa	able of 4 th Order survey
4.	Description	NSN Part No. QT
	None	
5.	Q-36 Verification Procedure.	
ST	EP 1: Verify Boresight Telescope Alig	nment.
(V		oresight Telescope as per TM 11-5840-378-20&F If necessary perform Boresight Alignment on pa
	3 Only) Perform Check and Service Bores	sight Telescope as per TM 11-5840-380-23-1
(V		necessary perform Boresight Alignment on page
	(DRAFT Dated 1 FEB 02), page 4-22. If 1 632.	
	(DRAFT Dated 1 FEB 02), page 4-22. If 1 632.	necessary perform Boresight Alignment on page and a far stake (4) with known azimuth at a distance of the page of



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5. Q-36 Verification Procedure (Cont.)	
STEP 3: DRUH Precision Alignment Plate Verification.	
A. Manually rotate the antenna to the operational position and lo alignment pin through the alignment bracket on the side of the A roadside fender. Begin the alignment by first protecting the plum any available means. Roughly align the ATG boresight telescop bob over the survey point to within 1-2 centimeters of center of s ATG on the jack pads while maintaining the boresight telescope required – 1-boresight telescope, 2-front of ATG, 3- rear ATG).	TG and into the alignment plate located on the bb bob string from the wind by shielding it by with the far stake by placing the ATG plumb survey pin. Begin the process of moving the
B. Precisely level ATG using trailer leveling jacks (5) and obserunder tilt sensor (3).	ving elevation tilt and cross tilt bubbles (1)
C. Place the ATG plumb bob over the survey point to within 5 m jack pads as necessary.	nillimeters of center by moving the ATG on the
Note: When A - C are completed, radar boresight scope should the far stake established in Step 2. It maybe easier to establish accomplished. Do this by placing far stake so it is in alignment we establish the angle between radar and far stake. This alternative proper direction but eliminates the need to physically adjusting that stake. Antenna alignment pin must remain installed in alignment pin must remain installed.	angle to far stake after A & B are vith boresight scope and then have surveyors method requires radar be pointed generally in the complete radar to align boresight scope with
D. Initialize MAPS using survey data (enter the zone, easting, n and sighted on the azimuth far stake (4).	orthing, and altitude) when the ATG is leveled
E. After survey data input, allow the system to initialize at this si approximately 10 to 15 minutes to complete. Once complete de current azimuth position. Compare MAPS azimuth with surveye mil of the survey point azimuth.	press the AZ key on the RDU to display the
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5. Q-36 Verification Procedure (Cont.)

STEP 4: Notify PM Firefinder of results.

The unit should record the known Survey Point Azimuth, the MAPS Azimuth reading from the RDU, and the distance to the far stake used and send this data to PM Firefinder along with the ATG Serial number, date of verification, person completing verification, and unit. Send report to: Ken Pickett at kenneth.pickett@iews.monmouth.army.mil or DSN 987-5069/COM 732-427-5069/FAX 5930

If MAPS alignment is within spec, send correspondence to PM Firefinder with the above data.

If MAPS alignment difference is greater than 1 mil then the DRUH Mounting Plate maybe installed incorrectly or your trailer may have structural damage. Notify PM Firefinder immediately with the above data to coordinate for DEPOT team to evaluate and re-align the plate. Use manual survey until DRU plate alignment is corrected.

Note: This procedure will be added to the PMCS section of next change to TM 11-5840-378-20&P (for V5/V7) and TM 11-5840-380-23-1 (for V8). This will be a semiannual verification.

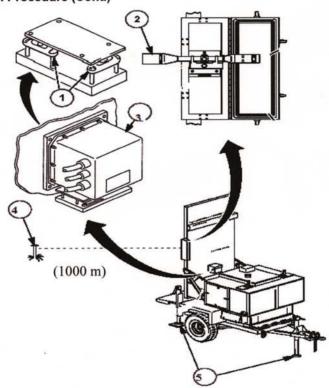
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5. Q-36 Verification Procedure (Cont.)



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